

INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/051136

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 E05B65/20 E05B47/00 E05F15/16 B60J5/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E05F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)
--

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT
--

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 149 969 A (MERITOR LIGHT VEHICLE SYSTEMS LTD) 31 October 2001 (2001-10-31) paragraph '0016!; figures 1-5	1-4,8
X	US 6 075 298 A (TILLI CHRISTOPHER R ET AL) 13 June 2000 (2000-06-13) column 4, line 38 - line 51; figure 2 column 6, line 4 - line 15; figure 8	1-4,8
X	US 5 920 158 A (FALCOFF MONTE L ET AL) 6 July 1999 (1999-07-06) column 6, line 20 - line 39; figure 16	1,2,8
X	US 4 478 004 A (ANDREI-ALEXANDRU MARCEL ET AL) 23 October 1984 (1984-10-23) the whole document	1,2,8
	----- -----	-/-

<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.
--

<input checked="" type="checkbox"/> Patent family members are listed in annex.
--

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

T later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the International search

Date of mailing of the International search report
--

30 August 2004

09/09/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

PEREZ MENDEZ, J

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/051136

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 195 26 451 C (DAIMLER BENZ AG) 12 September 1996 (1996-09-12) column 3, line 13 - column 4, line 16; figures 1,2 -----	1,8
X	US 4 381 625 A (ANDREI-ALEXANDRU MARCEL ET AL) 3 May 1983 (1983-05-03) abstract; figures 1-18 -----	1,8
E	WO 2004/055310 A (ARMBRUSTER STEFAN ; KIEKERT AG (DE); KILL JUERGEN (DE); REDDMANN UWE () 1 July 2004 (2004-07-01) page 13, line 18 - page 14, line 16; figures 1-5 -----	1-4,8

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/051136

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1149969	A	31-10-2001	EP US	1149969 A2 2001050496 A1	31-10-2001 13-12-2001
US 6075298	A	13-06-2000	WO	9919967 A1	22-04-1999
US 5920158	A	06-07-1999	US US CA EP WO BR CN EP EP JP US WO US US US US BR CN DE EP JP WO US US US	5841249 A 5694812 A 2316354 A1 1021323 A1 9919180 A1 9608154 A 1182391 A 0824423 A1 0841230 A1 11504795 T 5905345 A 9633891 A1 6018223 A 5903114 A 5949206 A 9608188 A 1183082 A 69609179 D1 0824427 A1 11505486 T 9633893 A1 6126132 A 5916327 A 6116110 A	24-11-1998 09-12-1997 22-04-1999 26-07-2000 22-04-1999 24-08-1999 20-05-1998 25-02-1998 13-05-1998 27-04-1999 18-05-1999 31-10-1996 25-01-2000 11-05-1999 07-09-1999 04-05-1999 27-05-1998 10-08-2000 25-02-1998 21-05-1999 31-10-1996 03-10-2000 29-06-1999 12-09-2000
US 4478004	A	23-10-1984	DE BR FR GB IT JP	3111633 A1 8201636 A 2503233 A1 2095324 A ,B 1150498 B 57169184 A	18-11-1982 16-02-1983 08-10-1982 29-09-1982 10-12-1986 18-10-1982
DE 19526451	C	12-09-1996	DE	19526451 C1	12-09-1996
US 4381625	A	03-05-1983	DE FR GB IT	2854713 A1 2444778 A1 2039597 A ,B 1125939 B	10-07-1980 18-07-1980 13-08-1980 14-05-1986
WO 2004055310	A	01-07-2004	DE WO	10258566 A1 2004055310 A1	08-07-2004 01-07-2004